

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of the Claims:**

Claim 1 (currently amended): An isolated polynucleotide comprising a nucleotide sequence ~~which encodes~~ encoding ~~a protein having~~ the amino acid sequence set out in SEQ ID NO: 2:

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-Ile-Lys-Lys-Lys-Lys.

Claim 2 (currently amended): A An isolated polynucleotide comprising the nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggctttgca tccttgcttc gaagaaacca atttaccctc  
ctggtactat ttcttttgca aattcagagt ctgggtctgg atattgatag  
ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggaccca  
aaggagatga tggtgaaaaa ggagatccag gagaagaggg aaagcatggc

aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat  
gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg  
acaaagggga aaaaggtttg cttgaatac ctggagaaaa aggcaaagca  
ggtactgtct gtgattgtgg aagataccgg aaatttgtg gacaactgga  
tattagtatt gcccggctca agacatctat gaagttgtc aagaatgtga  
tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa  
gagaagaact acaggggaatc cctaaccac tgcaggattc ggggtggaat  
gctagccatg cccaaggatg aagctgcaa cacactcatc gctgactatg  
ttccaagag tggcttctt cgggtgttca ttggcgtgaa tgacctgaa  
agggagggac agtacatgtt cacagacaac actccactgc agaactatag  
caactggaat gagggggaac ccagcgaccc ctatggtcac gaggactgtg  
tggagatgct gagctctggc agatggaatg acacagagt ccatcttacc  
atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcatc  
ctacgtattt gctatttcc tgtgaccgtc attacagttt ttgttatcca  
tctttttt cctgattgta ctacattga tctgagtcaa catagctaga  
aaatgctaaa ctgaggtatg gagcctccat catcatgctc tttgtgatg  
atttcatat ttcacacat ggtatgttat tgaccaata actcgccagg  
ttcatgggt cttgagagag aattttaatt actaatttg cagagatag  
ttggtgtct atatgtcaaa tgagttgtc tcttggtatt tgcctacca  
tctctcccta gagcactctg tgtctatccc agtggataat tcccagttt  
actggtgatg attaggaagg ttgtgatgg ttaggctaac ctgccctggc  
ccaaagccag acatgtacaa gggcttctg tgagcaatga taagatctt  
gaatccaaga tgcccagatg tttaccagt cacaccctat ggccatggct  
atacttgga gttctcctg ttggcacaga catagaaatg ctttaacccc  
aagcctttat atgggggact tctagctttg tgtctgttt cagaccatgt  
ggaatgataa atactctttt tgtgctctg atctatcat ttcactaaca  
tataccaagt aggtgctttg aacccttct ttaggctca caccttaac  
tcaggcccct atatagtcac actttgattt aagaaaaacg gagcc.

Claims 3-4 (canceled)

Claim 5 (currently amended): An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a non-coding strand complementary to SEQ ID NO:

1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC; wherein the ~~polypeptide~~ polynucleotide encodes a protein having anti-virus activity and comprises: (1) a Ca<sup>2+</sup>-dependent carbohydrate recognition domain (CRD), (2) a neck region, (3) a collagen-like region, and (4) an N-terminal region containing cysteine.

Claim 6 (previously presented): The polynucleotide according to claim 1 wherein said polynucleotide is cDNA.

Claim 7 (canceled)

Claim 8 (currently amended): An isolated collectin protein ~~comprising~~ consisting of the amino acid sequence set out in SEQ ID NO:2:

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-Ile-Lys-Lys-Lys-Lys.

Claim 9 (currently amended): A An isolated collectin protein ~~comprising~~  
consisting of the amino acid sequence encoded by ~~the polynucleotide comprising the~~  
nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggctttgca tccttgcttc gaagaaacca atttatcctc  
ctgttactat ttcttttgca aattcagagt ctgggtctgg atattgatag  
ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggacca  
aaggagatga tggtgaaaaa ggagatccag gagaagaggg aaagcatggc  
aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat  
gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg  
acaaagggga aaaaggtttg cttggaatac ctggagaaaa aggcaaagca  
ggtactgtct gtgatttggt aagataccgg aaatttgtt gacaactgga  
tattagtatt gcccggtcga agacatctat gaagttgtc aagaatgtga  
tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa  
gagaagaact acagggaatc cctaaccac tgcaggattc ggggtggaat  
gctagccatg cccaaggatg aagctgcaa cacactcctc gctgactatg  
ttgccaagag tggcttctt cgggtgttca ttggcgtgaa tgacctgaa  
agggagggac agtacatgtt cacagacaac actccactgc agaactatag  
caactggaat gagggggaac ccagcgacc ctatggatcat gaggactgtg  
tggagatgct gagctctggc agatggaatg acacagagt ccatcttacc  
atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcctc  
ctacgtattt gctattttcc tgtgaccgtc attacagttt ttgttatcca  
tcctttttt cctgattgta ctacattga tctgagtcaa catagctaga  
aatgctaaa ctgagggtat gagcctccat catcatgctc tttgtgatg  
atttcatat ttacacat ggtatgttat tgaccaata actcgccagg  
ttacatgggt cttgagagag aattttaatt actaatttg cacgagatag  
ttggtgtct atatgtcaaa tgagttgtt tcttggtatt tgcctacca  
tctctcccta gagcactctg tgtctatccc agtgagataa tcccagttt  
actggtgatg attaggaagg ttgtgatgg ttaggctaac ctgccctggc  
ccaaagccag acatgtacaa gggctttctg tgagcaatga taagatctt  
gaatccaaga tgcccagatg tttaccagt cacacctat ggcatggct  
atacttgga gttctcctt ttggcacaga catagaaatg ctttaacccc

aagcctttat atgggggact tctagctttg tgtcttgttt cagaccatgt  
ggaatgataa atactctttt tgtgcttctg atctatcgat ttactaaca  
tataccaagt aggtgctttg aacccctttc tgtaggctca caccttaatc  
tcaggccctt atatagtcac actttgattt aagaaaaacg gagcc.

Claim 10 (canceled)

Claim 11 (currently amended): ~~A polypeptide comprising the~~ The isolated collectin protein according to Claim 8 or 9, wherein ~~the amino acid sequence of the~~ polypeptide comprises deletion, substitution and/or addition of one or more amino acids, and wherein the protein comprises: (1) ~~Ca<sup>2+</sup>-dependent carbohydrate recognition domain (CRD),~~ (2) ~~neck region,~~ (3) ~~collagen-like region,~~ and (4) ~~N-terminal region containing cysteine~~ (1) the Ca<sup>2+</sup>-dependent carbohydrate recognition domain comprises amino acid 1 to 46 of SEQ ID NO: 2, (2) the neck region comprises amino acid 47 to 118 of SEQ ID NO: 2, (3) the collagen-like region comprises amino acid 119 to 147 of SEQ ID NO: 2, and (4) the N-terminal region containing cysteine comprises amino acid 148 to 227 of SEQ ID NO: 2.

Claim 12 (currently amended): A method for isolating a polynucleotide encoding the collectin protein according to claim 8 or 9 ~~with anti-virus activity comprising;~~ (1) ~~a Ca<sup>2+</sup>-dependent carbohydrate recognition domain (CRD),~~ (2) ~~a neck region,~~ (3) ~~a collagen-like region,~~ and (4) ~~an N-terminal region containing cysteine;~~ comprising the steps of:

(i) preparing a probe ~~comprising the polynucleotide according to~~ which is complementary to the nucleotide sequence set out in SEQ ID NO: 1;

(ii) hybridizing the probe with a candidate polynucleotide at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-Lauroyl sarcosine and 0.02% SDS; and

(iii) washing the probe at 55°C in a wash solution comprising 2 X SSC; and (iii)

(iv) isolating the hybridized polynucleotide.

Claim 13 (currently amended): An isolated polynucleotide ~~comprising a nucleotide sequence which is~~ complementary to the isolated polynucleotide set out in according to Claim 5.

Claim 14 (new): An isolated collectin protein comprising the amino acid sequence of SEQ ID NO: 2 wherein said amino acid sequence further comprises deletion, substitution and/or addition of (1) one to ten amino acid residue(s) in the  $\text{Ca}^{2+}$ -dependent carbohydrate recognition domain, amino acids 1 to 46 of SEQ ID NO: 2, (2) one to ten amino acid residue(s) in the neck region, amino acids 47 to 118 of SEQ ID NO: 2, (3) one to fifteen amino acid residue(s) in the collagen-like region comprises amino acids 119 to 147 of SEQ ID NO: 2, and (4) one to twenty amino acid residue(s) in the N-terminal region containing cysteine comprises amino acids 148 to 227 of SEQ ID NO: 2.